

ABSTRACT

When a home appliance equipped with a processor implementing a conventional JVM with a JIT compiler executes uncompiled
5 methods, the execution speed is slower because the methods are
compiled at runtime. To suppress the execution speed reduction,
a program execution control device judges, on invocation of a
method during program execution, whether a method invoked has
previously been compiled. If the method is uncompiled, the
10 device executes the method by interpreting associated bytecodes,
and also issues a compilation request for the method. If the
method is compiled, the device executes native code having been
generated by compiling the method. Compilation of a method
requested is executed as a separate task from tasks of instruction
15 execution such as interpreter execution or native code execution.